

WHAT IS CLAIMED IS:

1. A push-pull pipe coupling adapted for interconnecting a pair of pipe sections, said pipe coupling comprising:

5 a hollow connector having an internal chamber within which is adapted to be located a pipe section, surrounding the pipe section is a coupler, said coupler including a grab ring housing which is annular in configuration and is located about the pipe section, said grab ring housing having an interior surface  
10 that is formed into an annular concavity;

said coupler including a grab ring mounted within said concavity, said grab ring having an annular wall which has a plurality of inwardly extending biting members, said biting members adapted to abut against the pipe section; and

15 whereby said biting members are acute angularly disposed relative to the pipe section and upon movement in a withdrawing direction of the pipe section from said internal chamber said biting members are cause to pivot to a smaller acute angle and dig into the pipe section forming a securement between the connector  
20 and the pipe section.

2. The push-pull pipe coupling as defined in Claim 1 wherein:

said grab ring comprising a split ring.

3. The push-pull pipe coupling as defined in Claim 1  
wherein:

said annular concavity having a forward wall which is  
located at an acute angle that is less than the acute angle of  
5 said biting members prior to the withdrawing movement of the pipe  
section.

4. The push-pull pipe coupling as defined in Claim 1  
wherein:

said annular concavity having a rear wall.

10 5. The push-pull pipe coupling as defined in Claim 1  
wherein:

said grab ring housing being formed of a hard plastic  
material.

15 6. The push-pull pipe coupling as defined in Claim 1  
wherein:

said grab ring being formed of a metal material.

7. The push-pull pipe coupling as defined in Claim 1  
wherein:

said grab ring housing having a front surface, said  
20 front surface being annular and beveled.

8. The push-pull pipe coupling as defined in Claim 7  
wherein:

said front surface connecting with an annular beveled  
surface formed on a retaining cap which functions to close said  
5 internal chamber.

9. The push-pull pipe coupling as defined in Claim 8  
wherein:

said retaining cap has a plurality of slots, said slots  
permit said retaining cap to deflect during installation on said  
10 hollow connector.

10. The push-pull pipe coupling as defined in Claim 7  
wherein:

said front surface interconnecting with an annular  
beveled surface formed on a washer which is mounted within said  
15 internal chamber.